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Amendments to the Claims:

This listing of claims replaces all prior versions and listings of claims in the application:

Listing of Claims:

- 1. (Currently Amended) A fuel cartridge comprising:
- a housing, defining an interior space, with the interior space confining configured to contain a liquid, oxidizable fuel;
- a fuel egress port supported by the housing, providing egress of fuel from the interior space of the housing; and
- a resistive heating element disposed in the fuel egress port <u>configured</u> to produce heat and provide a concomitant increase in a vaporization rate of fuel from the housing.
 - 2. (Withdrawn) The fuel cartridge of claim 1 further comprising:
 - a surface area enhanced planar vaporization membrane at the heat producing element.
- 3. (Withdrawn) The fuel cartridge of claim 2 wherein the surface area enhanced planar vaporization membrane is disposed about a substantial portion of the heat producing element.
- 4. (Withdrawn) The fuel cartridge of claim 2 wherein the surface area enhanced planar vaporization membrane is a composite membrane comprised of multiple layers or folds of polymer membrane to increase vapor permeation surface area.
- 5. (Withdrawn) The fuel cartridge of claim 2 wherein the surface area enhanced planar vaporization membrane is a membrane arranged as a series of folds.
- 6. (Withdrawn) The fuel cartridge of claim 2 wherein the surface area enhanced planar vaporization membrane is a polymer membrane provided with macroscopically irregular and/or

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microscopically roughened membrane surfaces to increase the effective membrane surface area for pre-evaporation.

7. (Withdrawn) The fuel cartridge of claim 2 wherein the heating element is disposed within the housing adjacent the surface area enhanced planar vaporization membrane that spaces a liquid source of hydrogen containing compound or carbonaceous fuel from a vapor phase of the source of hydrogen containing compound or carbonaceous fuel.

- 8. (Currently Amended) The fuel cartridge of claim 1 wherein fuel contained confined by the housing of the cartridge is supplied to a direct methanol fuel cell and is a liquid source of hydrogen containing compound or carbonaceous fuel.
- 9. (Previously Presented) The fuel cartridge of claim 1 wherein the resistive heating element is a wire disposed in thermal communication with the interior of the cartridge.
- 10. (Previously Presented) The fuel cartridge of claim 1 wherein the resistive heating element is a wire.
- 11. (Previously Presented) The fuel cartridge of claim 1 wherein the resistive heating element spaces a vapor portion of the cartridge from a liquid reservoir of the cartridge.
 - 12. (Previously Presented) A fuel cartridge, comprising:
 - a housing;
 - a fuel egress port supported by the housing configured to pass fuel in vapor phase;
 - a bladder for containing a source of fuel;
- a resistive heating element disposed in the fuel egress port to produce heat and provide a concomitant increase in a vaporization rate of the fuel; and
 - a piston that is urged against the bladder.

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Claim 13 is canceled.

14. (Previously Presented) The fuel cartridge of claim 12 further comprising a spring mechanism disposed to urge the piston against the bladder.

15. (Currently Amended) The fuel cartridge of claim 12 further comprising a battery cell

disposed to supply power to the <u>resistive</u> heat<u>ing-producing</u> element.

16. (Original) The fuel cartridge of claim 12 wherein fuel cartridge is a prismatic shaped

cartridge.

17. (Original) The fuel cartridge of claim 12 wherein the source of fuel in the bladder is

methanol.

18. (Withdrawn) A fuel cartridge, comprising:

a housing;

a fuel egress port supported by the housing; and

a piston that is urged against the vaporization membrane, with the vaporization

membrane providing a chamber in the fuel cartridge in vapor communication with the fuel cell

anode.

19. (Withdrawn) The fuel cartridge of claim 18 further comprising a spring mechanism

disposed to urge the piston against the membrane.

20. (Withdrawn) A fuel cartridge, comprising:

an inner housing having a opening to allow vapor to escape;

a vaporization membrane;

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a piston that is urged against the vaporization membrane, with the vaporization membrane providing a chamber in the inner housing in vapor communication with the opening; and

an outer housing disposed around at least a portion of the inner housing, forming an outer chamber about the inner housing, with the outer chamber being in vapor communication with the chamber in the inner housing.

- 21. (Withdrawn) The fuel cartridge of claim 20 further comprising a vapor impermeable member disposed to terminate the outer chamber.
- 22. (Withdrawn) The fuel cartridge of claim 18 further comprising a spring mechanism disposed to urge the vapor impermeable member against a liquid fuel in the inner housing.